

Comparisons of Job Characteristics

Focus Occupation: Hazardous Materials Removal Workers (47-4041)

Associated Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 56

Focus Occupation: Hazardous Materials Removal Workers (47-4041)

Associated Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Engineering and Technology	5.7	18.9	5.7	<<	Extensive education and/or training may be required
Design	5.2	15.9	4.1	<<	Extensive education and/or training may be required
Mathematics	9.2	15.1	6.2	<<	Extensive education and/or training may be required
Physics	4.3	14.1	6.9	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	14.0	9.1	<<	Extensive education and/or training may be required
Chemistry	4.8	13.0	14.6	>	Current knowledge level is likely sufficient
Law and Government	5.9	12.4	3.6	<<	Extensive education and/or training may be required
Building and Construction	4.0	10.3	7.1	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 40

Focus Occupation: Hazardous Materials Removal Workers (47-4041)

Associated Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Critical Thinking	10.8	14.4	11.5	<	A higher skill level may be required
Science	4.5	12.4	4.3	<<	Extensive development of skills in this area may be required

Operations Analysis	5.0	11.0	2.6	<<	Extensive development of skills in this area may be required
Systems Analysis	6.5	10.6	6.4	<<	Extensive development of skills in this area may be required
Systems Evaluation	6.4	10.5	5.8	<<	Extensive development of skills in this area may be required
Technology Design	2.6	5.8	1.9	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 67			
Focus Occupation: Hazardous Materials Removal Workers (47-4041) Associated Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	15.3	13.4	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	14.3	10.3	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	14.1	12.0	<	Some improvement in abilities may be required
Written Comprehension	11.0	14.1	10.5	<<	Extensive improvement in abilities may be required
Written Expression	9.8	13.4	10.1	<<	Extensive improvement in abilities may be required
Near Vision	11.1	12.7	10.6	<	Some improvement in abilities may be required
Information Ordering	9.9	11.9	10.2	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	11.0	7.2	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	10.9	8.3	<<	Extensive improvement in abilities may be required
Far Vision	7.8	10.2	9.4	0	Current ability level may be sufficient
Speed of Closure	5.9	8.2	7.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 56
Focus Occupation: Hazardous Materials Removal Workers (47-4041) Associated Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)		
Work Activities		Exclusivity of Activity

Adhere to safety procedures	12
Follow safe waste disposal procedures	50
Use government regulations	44

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 66

Focus Occupation: Hazardous Materials Removal Workers (47-4041)

Associated Occupation: Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111)

Tools and Technologies	Exclusivity
Chemical evaluation instruments and supplies	10
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Electrochemical measuring instruments and accessories	9
Gas analyzers and monitors	10
Indicating and recording instruments	2
Sampling equipment	12
Spectroscopic equipment	10

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.